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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,363	10/03/2003	Manhee Jo	243517US8	9818
22850 7590 03/19/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER WONG, XAVIER S	
			ART UNIT	PAPER NUMBER
			2609	

SHORTENED STATUTORY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE
3 MONTHS	03/19/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 03/19/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/677,363	Applicant(s) JO ET AL.	
	Examiner Xavier Wong	Art Unit 2609	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 3rd Oct 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 - 6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 - 6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 3rd Oct 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>See Continuation Sheet</u> . | 6) <input type="checkbox"/> Other: _____ |

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :5th Mar 2004, 29th Mar 2004, & 3rd Jan 2007.

DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d).

Information Disclosure Statement

The information disclosure statements submitted on 3rd January 2007, 29th March 2004 and 5th March 2004 have been considered by the Examiner and made of record in the application file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 – 6 are rejected under 35 U.S.C. 102(e) as being anticipated by **Bruno et al (U.S Patent 6,614,765 B1)**.

Regarding claim 1, **Bruno et al** clearly show and disclose a routing processor 130 for managing routing information (routing control device) that performs evaluation of

Art Unit: 2609

routing requirements and selection of communication paths (transfer control processing) by means of transmitting/generating SS7 reserve messages to each (therefore, collectively) intermediate router 60 (transfer devices) through retrieving addresses and related information of each intermediate router from built-in router table 140 and inventory control table 150 (column 6 lines 46-55 & column 7 lines 45-66; *abstract*) in which said information are transmitted to and from the routers and the processor (column 7 lines 7-17; figs. 3 & 4).

Regarding claim 2, **Bruno et al** clearly show and disclose the routing processor 130, which comprises of a routing table 140 and an inventory control table 150, generates SS7 reserve messages to each intermediate routers 60 (column 6 lines 46-55 & column 7 lines 45-66; fig. 3).

Regarding claim 3, **Bruno et al** clearly show and disclose the routing processor 130 identifies and sends messages to each intermediate router, including any backup or secondary routers, that are connected there between (therefore, physically connected) (column 5 lines 57-64). The routing processor 130 transmits SS7 reserve messages to each intermediate router 60 (column 6 lines 46-55 & column 7 lines 45-66; figs. 1 & 3).

Regarding claim 4, **Bruno et al** clearly show and disclose the routing processor 130 comprises a routing table 140 and inventory control table 150 table that store communication paths 23b information of each intermediate router 60 as well as routing

location and alternate routing information (adjacency information of the routers) for determining optimal routing paths (column 7 lines 52-56 & column 8 lines 22-50). **Bruno et al** further disclose a statistical program 170 within the inventory control table 150 calculates metric information such as minimum hops to transfer calls across the network, bandwidth, and percentage of time corresponding time communication paths are available (column 8 lines 30-35 & 51-63). The processor also updates the tables (renews information) according to changes in the network topology such as local dynamic routing information regarding unavailability and spare (column 7 lines 14-22).

Regarding claim 5, **Bruno et al** clearly show and disclose the processor comprises of an optimal routing program 160 to determine an optimum routing path required to minimize the number of routing hops to complete a call across a network, which comprises of a plurality of all communication routes/paths (column 8 lines 30-35 & column 9 lines 1-16; figs. 1 & 3).

Regarding claim 6, **Bruno et al** clearly show and disclose a method to determine router availability by incrementing a pointer in a list of candidate intermediate routers 60 identified by the processor 130 (column 6 lines 4-15); therefore, justifying a method to count the number of routers in the network. **Bruno et al** further disclose a method to update the inventory control table 150 afterwards using statistical program 170 to calculate metric information such as minimum hops to transfer calls across the network, bandwidth, and percentage of time corresponding time communication paths are

Art Unit: 2609

available (column 7 lines 14-22 & column 8 lines 30-35 & 51-63); furthermore, a method using routing processor 130 comprises a routing table 140 and inventory control table 150 table that store communication paths 23b information of each intermediate router 60 as well as routing location and alternate routing information (therefore, record of adjacency identifications of all routers) for determining optimal routing paths (column 7 lines 52-56 & column 8 lines 22-50).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Xavier Wong whose telephone number is (571) 270-1780. The examiner can normally be reached on Monday through Friday 8 am - 5 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rafael Perez-Gutierrez can be reached on (571) 272-7915. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

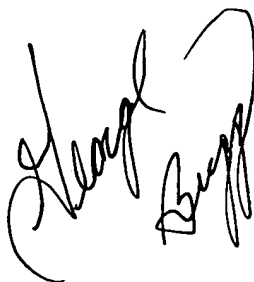
Art Unit: 2609

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or (571) 272-1000.

Xavier Szewai Wong

X.S.W / x.s.w

8th March 2007

A handwritten signature in black ink, appearing to read 'Xavier Szewai Wong', with a large, stylized flourish at the end.